

## Power Relay RM C/D

- 1 pole 30/32 A, 1 form X, double make, NO or  
1 form Z, double make + double break, NO + NC
- Switching capacity up to 12800VA
- DC or AC coil
- Push-to-test button
- Chassis mount

Typical applications  
Battery chargers, heating control.



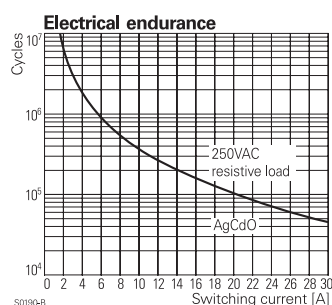
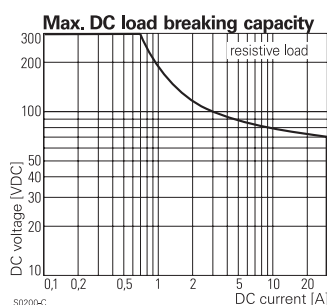
### Approvals

UL E214025, VDE Cert. No. 40003144 for AgNi-versions  
Technical data of approved types on request.

| Contact Data                                          | RMC                      | RMD               |
|-------------------------------------------------------|--------------------------|-------------------|
| Contact arrangement                                   | 1 form Z,<br>1 NO + 1 NC | 1 form X,<br>1 NO |
| Rated voltage                                         | 400VAC                   |                   |
| Max. switching voltage                                | 440VAC                   |                   |
| Rated current                                         | 30A/32A (VDE)            |                   |
| Limiting making current, max. 20ms                    | 60A                      |                   |
| Switching power                                       | 7500VA                   |                   |
| Contact material                                      | AgCdO, AgNi 90/10        |                   |
| Contact style                                         | single bridging contact  |                   |
| Min. recommended contact load                         | 24VDC/100mA              |                   |
| Frequency of operation,<br>with/without load, DC coil | 960/6000h <sup>-1</sup>  |                   |
| Operate/release time max., DC coil                    | 20/20ms                  |                   |
| Bounce time max., form A/form B, DC coil              | 4/6ms                    |                   |

### Contact ratings

| Type                 | Contact                      | Load                                | Cycles                        |
|----------------------|------------------------------|-------------------------------------|-------------------------------|
| <b>EN 61810</b>      |                              |                                     |                               |
| RMC/D                | X of Z (NO), AgNi            | 32A, 400VAC res. 40°C               | 20x10 <sup>3</sup>            |
| RMC                  | Y of Z (NO), AgNi            | 32A, 400VAC res. 40°C               | 10x10 <sup>3</sup>            |
| RMC/D                | X of Z (NO),<br>AgNi DC coil | 30A, 400VAC res. 50°C               | 10x10 <sup>3</sup>            |
| RMC/D                | X of Z (NO),<br>AgNi AC coil | 30A, 400VAC res. 40°C               | 10x10 <sup>3</sup>            |
| <b>UL 508</b>        |                              |                                     |                               |
| RMC/D                | X/Y (NO/NC),<br>AgCdO,       | 30 A, 277 VAC, general purpose 50°C | 10x10 <sup>3</sup>            |
| RMC/D                | X/Y (NO/NC),<br>AgNi         | 30 A, 415 VAC, resistive 50°C       | 10x10 <sup>3</sup>            |
| RMC/D                | X (of Z / NO), AgNi          | 120 VAC, 0,75 HP 50°C               | 10x10 <sup>3</sup>            |
| RMC/D                | X/Y (NO/NC)                  | 240 VAC, 2 HP 50°C                  | 6x10 <sup>3</sup>             |
| Mechanical endurance |                              |                                     |                               |
| DC coil              |                              |                                     | 10x10 <sup>6</sup> operations |
| AC coil              |                              |                                     | 10x10 <sup>6</sup> operations |



### Coil Data

|                                     |                              |
|-------------------------------------|------------------------------|
| Coil voltage range                  | 6 to 220 VDC<br>6 to 400 VAC |
| Operative range, IEC 61810          | 2                            |
| Coil insulation system according UL | class 130 (B)                |

### Coil versions, DC coil

| STD | LED<br>bipolar | Coil code<br>PD <sup>3)</sup> | LED+<br>PD <sup>3)</sup> | Rated<br>voltage<br>VDC | Coil<br>resistance<br>$\Omega \pm 10\%$ <sup>1)2)</sup> | Rated coil<br>power<br>W |
|-----|----------------|-------------------------------|--------------------------|-------------------------|---------------------------------------------------------|--------------------------|
| 006 | L06            | 0A6                           | LA6                      | 6                       | 32                                                      | 1.1                      |
| 012 | L12            | 0B2                           | LB2                      | 12                      | 110                                                     | 1.3                      |
| 024 | L24            | 0C4                           | LC4                      | 24                      | 475                                                     | 1.2                      |
| 048 | L48            | 0E8                           | LE8                      | 48                      | 2000                                                    | 1.2                      |
| 060 | L60            | 0G0                           | LG0                      | 60                      | 2850                                                    | 1.3                      |
| 110 | M10            | 1B0                           | MB0                      | 110                     | 10000 <sup>1)</sup>                                     | 1.2                      |
| 221 | N21            | 2C1                           | NC1                      | 220                     | 40000 <sup>2)</sup>                                     | 1.2                      |

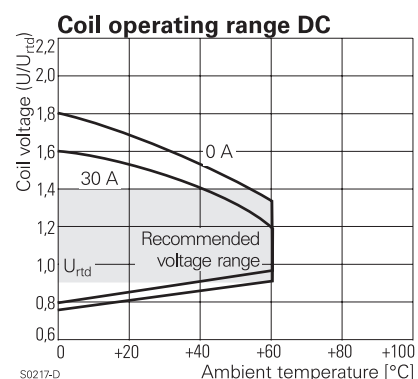
Operate voltage, DC coil 75% of rated coil voltage

Release voltage, DC coil 10% of rated coil voltage

1) Coil resistance  $\pm 12\%$ , 2) Coil resistance  $\pm 15\%$ .

3) Protection diode PD; standard polarity: +A1 / -A2.

All figures are given for coil without pre-energization, at ambient temperature +23°C.



**Power Relay RM C/D (Continued)**

**Coil Data (continued)**

**Coil versions, AC coil**

| Coil code | Rated voltage | Operate voltage | Release voltage | Coil resistance          | Rated coil power |
|-----------|---------------|-----------------|-----------------|--------------------------|------------------|
| STD LED   | 50/60Hz VAC   | 50/60Hz VAC     | 50/60Hz VAC     | $\Omega \pm 10\%^{1/2)}$ | 50/60Hz VA       |

**Coil versions, AC-coil, RMC, RMD**

|     |     |     |             |       |                     |            |
|-----|-----|-----|-------------|-------|---------------------|------------|
| 524 | R24 | 24  | 19.2/20.4   | 7.2   | 80                  | 2.62/2.00  |
| 548 | R48 | 48  | 38.4/40.8   | 14.4  | 320                 | 2.60/2.17  |
| 560 | R60 | 60  | 48.0/51.0   | 18.0  | 500                 | 2.62/2.20  |
| 615 | S15 | 115 | 92.0/97.8   | 34.5  | 1850                | 2.65/2.22  |
| 730 | T30 | 230 | 184.0/195.5 | 69.0  | 7500                | 2.69/ 2.26 |
| 900 | V00 | 400 | 320.0/340.0 | 120.0 | 23500 <sup>2)</sup> | 2.61/2.20  |

2) Coil resistance  $\pm 15\%$ .

All figures are given for coil without pre-energization, at ambient temperature +23°C.

**Insulation Data**

|                                    | RMC                    | RMD      |
|------------------------------------|------------------------|----------|
| Initial dielectric strength        |                        |          |
| between open contacts              | 1500Vrms               | 2000Vrms |
| between contact and coil           | 2500Vrms               | 2500Vrms |
| Initial surge withstand voltage    |                        |          |
| between contact and coil           | 6000V (1.2/50 $\mu$ s) |          |
| Clearance/creepage                 |                        |          |
| between contact and coil           | $\geq 4.0/14.9$ mm     |          |
| Material group of insulation parts | IIIa                   |          |

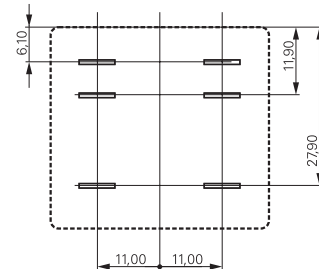
**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

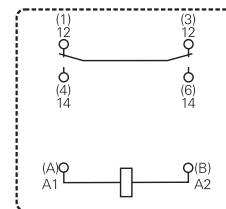
|                                                           |                          |
|-----------------------------------------------------------|--------------------------|
| Ambient temperature for mounting/handling in operation    | -20 to +40°C             |
| DC coil                                                   | -40 to +60°C             |
| AC coil                                                   | -40 to +40°C             |
| Cold storage, IEC 60068-2-1                               | Test Aa (-40°C/16h)      |
| Dry heat, IEC 60068-2-2                                   | Test B (+85°C/16h)       |
| Damp heat cyclic, IEC 60068-2-30, Db, Variant 1           | 12/12h +25/55°C 2 cycles |
| Category of environmental protection IEC 61810            | RT1 - dust protected     |
| Vibration resistance (functional) form A (NO)/form B (NC) | 10/5 g, 30 to 150Hz      |
| Terminal type                                             | quick connect (QC)       |
| Cover retention pull force                                | 100N                     |
| push force                                                | 100N                     |
| Weight                                                    | 81g                      |
| Packaging unit                                            | 10 pcs.                  |

**Terminal assignment**

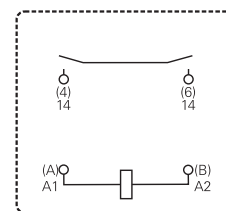
Bottom view on pins



1 form Z contact (1 NO + 1 NC), RMC



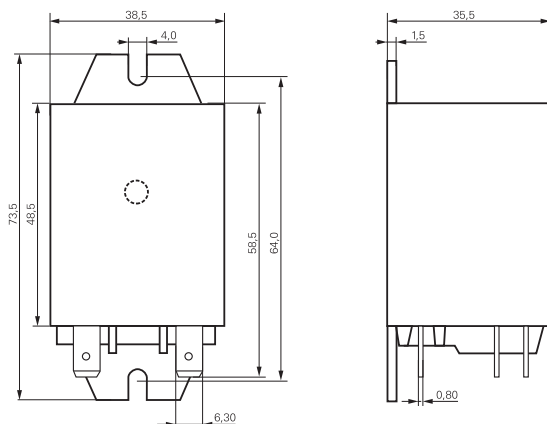
1 form X contact (1 NO), RMD



**Dimensions**

Dimensions in mm

Cover with mounting brackets, 6.3mm quick connect terminals



**Power Relay RM C/D** (Continued)

**Product code structure**

Typical product code **RM D 0 5 730**

|                     |                                                             |  |   |                             |  |
|---------------------|-------------------------------------------------------------|--|---|-----------------------------|--|
| Type                | RM Power Relay RMC/D                                        |  |   |                             |  |
| Contact arrangement |                                                             |  |   |                             |  |
| C                   | 1 form Z (1 NO + 1 NC), 30A                                 |  |   |                             |  |
| D                   | 1 form X (1 NO), 30A                                        |  |   |                             |  |
| Version             |                                                             |  |   |                             |  |
| 0                   | AgCdO, without test button                                  |  | 3 | AgCdO, with test button     |  |
| 2                   | AgNi90/10, without test button                              |  | 7 | AgNi90/10, with test button |  |
| Enclosure           |                                                             |  |   |                             |  |
| 5                   | Cover with mounting brackets, 6.3mm quick connect terminals |  |   |                             |  |
| Coil                | Coil code: please refer to coil versions table              |  |   |                             |  |

| Product key | Contacts     | Version          | Enclosure                            | Coil    | Coil   | Part number |
|-------------|--------------|------------------|--------------------------------------|---------|--------|-------------|
| RMC05024    | 1 form Z,    | Without          | Mounting brackets<br>quick c. 6.3 mm | DC coil | 24VDC  | 4-1393844-5 |
| RMC05524    | 1 NO + 1 NC  | test button      |                                      | AC coil | 24VAC  | 1393146-5   |
| RMC05615    | contact      |                  |                                      |         | 115VAC | 8-1393147-7 |
| RMC05730    | 30A          |                  |                                      |         | 230VAC | 1393146-6   |
| RMC35024    |              | With test button |                                      | DC coil | 24VDC  | 1393146-7   |
| RMD05024    | 1 form X,    | Without          |                                      |         | 24VDC  | 1393146-9   |
| RMD05524    | 1 NO contact | test button      |                                      | AC coil | 24VAC  | 1-1393146-1 |
| RMD05615    | 30A          |                  |                                      |         | 115VAC | 1415009-1   |
| RMD05730    |              |                  |                                      |         | 230VAC | 4-1393844-7 |
| RMD35024    |              | With             |                                      | DC coil | 24VDC  | 2-1419136-2 |
| RMD35730    |              | test button      |                                      | AC coil | 230VAC | 1393097-5   |



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- Подбор аналогов;
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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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